PAYLOAD HAZARD REPORT		a. NO: GHR-AMS02- 017			
b. PAYLOAD: Alpha Magnetic Spectrometer-02 (AMS-02) GSE		c. PHASE: II			
d. SUBSYSTEM:	e. HAZARD GROUP:	f. DATE:			
Tools	Human Factors	May 2008			
g. HAZARD TITLE:	- 1	i. HAZARD CATEGORY			
Injury/Damage from Hand Tools or Loose Ha	ardware	CATASTROPHIC  CRITICAL			
h. APPLICABLE SAFETY REQUIREMENTS: KHB 1700.7C, Section 4.1.6.; KHB 5310.1, General Operating Procedure 5-3.					
j. DESCRIPTION OF HAZARD:					
Personnel injury or hardware damage due to u	nsecured or unaccounted for hand tools or	loose hardware.			
k. HAZARD CAUSES:					
1. Unsecured tools used above personnel	or sensitive equipment.				
2. Unaccounted for tools left in flight hard	lware, GSE, or payload bay.				
3. Unaccounted for parts/components.					
4. Tip over of GSE racks.					
1. HAZARD CONTROLS:					
	(See continuation sheet)				
m. SAFETY VERIFICATION METHODS:					
iii. SAFETT VERIFICATION WETHODS.					
	(See continuation sheet)				
n. STATUS OF VERIFICATION:					
	(See continuation sheet)				
3					
o. APPROVAL	PAYLOAD ORGANIZATION	SSP/ISS			
PHASE I					
PHASE II	Wills Transmarin 18/3/4	10/3/10/3/10V			
PHASE III	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	and the second			

AYLOAD: Alpha Magnetic Spectrometer-02 (AMS-02) GSE		
	c. Phase	II
AZARD CAUSES: Unsecured tools used above personnel or sensitive equipment.		
$ ilde{t}$		
AZARD CONTROLS: Temporary restraints will be used to preclude tools from falling on personnel or critical has	ardware.	***************************************
COPV's will be protected against tool damage during fixed ground operations.		
Only secured tools will be used in proximity of COPV's when protective shielding is not	in place.	
Personnel will be trained to secure tools when they are being used above people or equip	ment.	
AFETY VERIFICATION METHODS: Review of tool control plan.		
Review of COPV plan.		
Review of tool control plan.		
Certification of personnel.		
ATUS OF VERIFICATION:	<u></u>	
Open Open		
Open		
Open		

PAYLOAD HAZARD REPORT CONTINUATION	SHEET	a. NO:	GHR AMS02- 017
b. PAYLOAD: Alpha Magnetic Spectrometer-02 (AMS-02) GSE		c. Phase	II
<ul> <li>k. HAZARD CAUSES:</li> <li>2. Unaccounted for tools left in flight hardware, GSE, or payload bay.</li> </ul>			
HAZARD CONTROLS:     2.1 Personnel training in AMS-02 tool control plan.		`	
m. SAFETY VERIFICATION METHODS: 2.1.1 Verification of training.	-		
n. STATUS OF VERIFICATION: 2.1.1 Open			
JSC Form 542B (Rev November 22, 1999) (MS Word September 1997)			

PAYLOAD HAZARD REPORT CONTINUATION SHEET	a. NO:	GHR AMS02- 017
b. PAYLOAD: Alpha Magnetic Spectrometer-02 (AMS-02) GSE	c. Phase	п
k. HAZARD CAUSES: 3. Unaccounted for parts/components.		
HAZARD CONTROLS:     3.1 Personnel training to account for parts/components.		
m. SAFETY VERIFICATION METHODS: 3.1.1 Verification of training.	,	:
n. STATUS OF VERIFICATION: 3.1.1 Open JSC Form 542B (Rev November 22, 1999) (MS Word September 1997)		

PAYLOAD HAZARD REPORT CONTINUATION SHEET		GHR AMS02- 017
b. PAYLOAD: Alpha Magnetic Spectrometer-02 (AMS-02) GSE	c. PHASE:	П
k. HAZARD CAUSES:		
4. Tip over of movable GSE.		
,		
I. HAZARD CONTROLS:		35
4.1 Racks/movable items will be loaded to ensure low center of gravity.		
4.2 Personnel will be trained to properly handle GSE racks.		
4.2 Tersonner with be trained to properly handle GSE facks.		
m. SAFETY VERIFICATION METHODS:		
4.1.1 Review of rack loading procedures.		
4.1.2 Tip Over Analysis of all movable items, including items to be moved in the PCR (7 degree in flooring).	cline and expan	ded metal
4.2.1 Personnel training in loading racks.		
		<u> </u>
n. STATUS OF VERIFICATION:		
4.1.1 Open 4.1.2 Open		
4.2.1 Open		
JSC Form 542B (Rev November 22, 1999) (MS Word September 1997)		